

IN THE CLAIMS

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A method of enhancing a content that comprises contiguous blocks containing a program stream and interleaved blocks containing interleaved program streams, said program streams being readable independently of one another, any occurrence of consecutive interleaved blocks in said content being forbidden, said method comprising a step of using an authoring system for processing an original block of said content so as to interleave at least one enhancement program stream associated with at least one original program stream of said original block, said original program stream comprising original program units[[,]] and said enhancement program stream comprising enhancement program units, an original program unit being associated with an enhancement program unit, said processing step comprising:
 - a) if said original block is a contiguous block:
 - [[-]] using the authoring system for checking whether interleaving of said enhancement program stream(s) into said original block would lead to an occurrence of consecutive interleaved blocks in said content, and in such a case, [[-]]using the authoring system for splitting said original contiguous block into a main block and at least one contiguous separation block,
 - [[-]]using the authoring system for using said contiguous separation block(s) to separate said consecutive interleaved blocks,
 - [[-]]using the authoring system for interleaving the enhancement program units associated with the original program units of said main block, if any, into said main block,
 - [[-]]interleaving the enhancement program units associated with the original program units of a contiguous separation block, if any, into an interleaved block that is adjacent to said contiguous separation block,
 - b) in other cases, using the authoring system for interleaving said enhancement program stream into said original block;

c) using the authoring system for adding a pointer in said original program units that points to the enhancement program unit it is associated with.

2. (original) A method of enhancing a content as claimed in claim 1, wherein the enhancement program unit(s) associated with the original program unit(s) of a contiguous separation block is (are) interleaved into the interleaved block that precedes said contiguous separation block.

3. (original) A method of enhancing a content as claimed in claim 1, wherein said separation block(s) comprise a number of original program units such that said contiguous separation block(s) have the smallest allowed size.

4. (Currently amended) A computer program comprising instructions for implementing a method of enhancing a content as claimed in claim 1 ~~one of claims 1 to 3~~ when said program is executed by a microprocessor.

5. (Currently amended) An authoring system comprising storage means for storing a program comprising instructions for implementing a method as claimed in claim 1 ~~one of claims 1 to 3~~ of enhancing an original content with at least an enhancement program stream, and processing means for executing said program so as to provide an enhanced content.

6. (Currently amended) A storage medium ~~data carrier~~ storing a content ~~an enhanced signal~~ obtained by applying a method of enhancing a content as claimed in claim 1 ~~one of claims 1 to 3~~, the storage medium ~~data carrier~~ being readable by processing equipment including a processor controlled by information stored within the content ~~the signal~~.

7. (Currently amended) A content ~~signal~~ embodied in a physical storage media and represented at variations in physical properties of the media, the content ~~signal~~ being obtained by applying a method of enhancing a content as claimed in

claim 1 ~~one of claims 1 to 3~~, the physical storage media being readable by processing equipment including a processor controlled by the content stored on the physical storage media signal.

8. (Currently amended) A ~~data-carrier storing a~~ content signal embodied in a physical storage media and represented as variations in physical properties of the media, the content signal comprising:

[[~~-~~]] contiguous blocks containing a program stream and interleaved blocks containing interleaved program streams,
[[~~-~~]] amongst said interleaved blocks, enhanced interleaved blocks comprising at least an original program stream comprising original program units and an associated enhancement program stream comprising enhancement program units, said original program units each comprising a pointer pointing to the enhancement program unit it is associated with,
[[~~-~~]] and amongst said contiguous blocks, separation blocks separating a preceding interleaved block and a following interleaved block, said separation blocks comprising one or more original program unit(s) of an original program stream, one of said preceding and following interleaved blocks comprising one or more enhancement program unit(s) associated with said original program unit(s), said original program unit(s) each comprising a pointer pointing to the enhancement program unit it is associated with, the storage media data-carrier being readable by processing equipment including a processor controlled by the content stored on the storage media signal.

9. (Currently amended) A content signal embodied in a physical storage media and represented as variations in physical properties of the media, the content signal comprising:

[[~~-~~]] contiguous blocks containing a program stream and interleaved blocks containing interleaved program streams,
[[~~-~~]] amongst said interleaved blocks, enhanced interleaved blocks comprising at least an original program stream comprising original program units and an

associated enhancement program stream comprising enhancement program units, said original program units each comprising a pointer pointing to the enhancement program unit it is associated with, [[-]]and amongst said contiguous blocks, separation blocks separating a preceding interleaved block and a following interleaved block, said separation blocks comprising one or more original program unit(s) of an original program stream, one of said preceding and following interleaved blocks comprising one or more enhancement program unit(s) associated with said original program unit(s), said original program unit(s) each comprising a pointer pointing to the enhancement program unit it is associated with, the physical storage media being readable by processing equipment including a processor controlled by the content stored on the storage media signal.

10-11. (Cancelled)